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PATENT

Docket No.: 19603/2921 (CRF-D-2484A)

#3

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s) : Min Lu and Hong Ji) Examiner:
Serial No. : To Be Assigned) Unknown
Cnfrm. No. : To Be Assigned) Art Unit:
Filed : Herewith) Unknown
For : AN ANTIGEN FOR DEVELOPING)
NEUTRALIZING)
ANTIBODIES TO HUMAN)
IMMUNODEFICIENCY VIRUS)

091 877,606

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §§ 1.97-1.98

Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

Pursuant to 37 CFR §§ 1.97-1.98, applicant(s) hereby bring(s) to the attention of the United States Patent and Trademark Office, the enclosed references listed on the attached PTO-1449 form.

1. Lu, M., et al. (1995) "A trimeric structural domain of the HIV-1 transmembrane glycoprotein," *Nature Structural Biology*, Vol. 12:1075-1082.
2. Blacklow, S.C., et al. (1995) "A Trimeric Subdomain of the Simian Immunodeficiency Virus Envelope Glycoprotein," *Biochemistry*, Vol. 34(46):14955-14962.
3. Lu, M., et al. (1997) "A Trimeric Structural Subdomain of the HIV-1

Transmembrane Glycoprotein," *Journal of Biomolecular Structure & Dynamics*, Vol. 15(3):465-471.

4. Chen, C.H., et al. (1995) "A Molecular Clasp in the Human Immunodeficiency Virus (HIV) Type 1 TM Protein Determines the Anti-HIV Activity of gp41 Derivatives: Implication for Viral Fusion," *Journal of Virology*, 3771-3777.
5. Tan, K., et al. (1997) "Atomic Structure of a thermostable subdomain of HIV-1 gp41," *Proc. Natl. Acad. Sci. USA*, Vol. 94:12303-12308.
6. Salzwedel, K., et al. (1999) "A Conserved Tryptophan-Rich Motif in the Membrane-Proximal Region of the Human Immunodeficiency Virus Type 1 gp41 Ectodomain Is Important for Env-Mediated Fusion and Virus Infectivity," *Journal of Virology*, Vol. 73(3):2469-2480.
7. Jiang, et al. (1993) "HIV-1 inhibition by a peptide" and "Nested fullerene-like structures," *Scientific Correspondence*, Vol. 365:113.
8. Malashkevich, V.N., et al. (1998) "Crystal structure of the simian immunodeficiency virus (SIV) gp41 core: Conserved helical interactions underlie the broad inhibitory activity of gp41 peptides," *Proc. Natl. Acad. Sci. USA*, Vol. 95:9134-9139.
9. Wild, C.T., et al. (1994) "Peptides corresponding to a predictive α -helical domain of human immunodeficiency virus type 1 gp41 are potent inhibitors of virus infection," *Proc. Natl. Acad. Sci. USA*, Vol. 91:9770-9774.
10. Gallaher, W.R., et al. (1989) "A General Model for the Transmembrane Proteins of HIV and Other Retroviruses," *AIDS Research and Human Retroviruses*, Vol. 5(4):431-440.
11. Chambers, P., et al. (1990) "Heptad repeat sequences are located adjacent to hydrophobic regions in several types of virus fusion glycoproteins," *Journal of General Virology*, 71:3075-3080.

12. Wild, C., et al. (1995) "The Inhibitory Activity of an HIV Type 1 Peptide Correlates with Its Ability to Interact with a Leucine Zipper Structure," *AIDS Research and Human Retroviruses*, Volume 11(3):323-325.
13. Delwart, E.L., et al. (1990) "Retroviral Envelope Glycoproteins Contain a 'Leucine Zipper'-like Repeat," *AIDS Research and Human Retroviruses*, Vol. 6(6):703-706.
14. Neurath, A.R., et al. (1995) "Two Partially Overlapping Antiviral Peptides from the External Portion of HIV Type 1 Glycoprotein 41, Adjoining the Transmembrane Region, Affect the Glycoprotein 41 Fusion Domain," *AIDS Research and Human Retroviruses*, Vol. 11(2):189-190.
15. Chan, D.C., et al. (1997) "Core Structure of gp41 from the HIV Envelope Glycoprotein," *Cell*, Vol. 89:263-273.
16. Caffrey, et al. (1998) "Three-dimensional solution structure of the 44 kDa ectodomain of SIV gp41," *The EMBO Journal*, Vol. 17(16):4572-4584.
17. Yang, X., et al. (2000) "Modifications That Stabilize Human Immunodeficiency Virus Envelope Glycoprotein Trimers in Solution," *Journal of Virology*, Vol. 74(10):4746-4754.
18. Yang, Z.N., et al. (1999) "The Crystal Structure of the SIV gp41 Ectodomain at 1.47 Å Resolution," *Journal of Structural Biology*, 126:131-144.
19. Weissenhorn, W., et al. (1997) "Atomic structure of the ectodomain from HIV-1 gp41," *Nature*, Vol. 387(22):426-430.

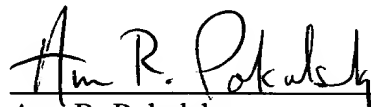
Copies of each of the references are also provided herewith. All of the references are in the English language.

Consideration of this Information Disclosure Statement is respectfully requested, since the art provided may be material to the examination of the present invention as defined in 37 C.F.R. § 1.56(a).

Inasmuch as this Information Disclosure Statement is being submitted prior to the issuance of an Official Action on the merits, no fee, certification or petition is required by Applicants.

Respectfully submitted,

Date: November 14, 2001

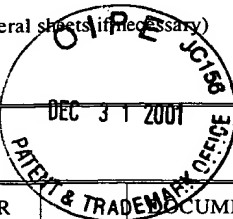

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Certificate of Mailing - 37 CFR 1.8(a)	
I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231, on the date below.	
Date <u>11/15/01</u>	<u>Maria Matos</u> Maria Matos

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use several sheets if necessary) (PTO-1449)	ATTY. DOCKET NO. 19603/2921 (CRF-D-2484a)	SERIAL NO. To Be Assigned
	APPLICANT Min Lu and Hong Ji	
	FILING DATE June 8, 2001	GROUP ART UNIT Unknown



U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPRO- PRIATE
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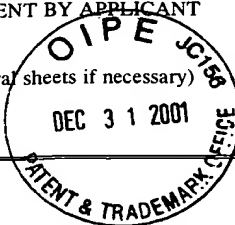
AK	Lu, M., et al. (1995) "A trimeric structural domain of the HIV-1 transmembrane glycoprotein," <i>Nature Structural Biology</i> , Vol. 12:1075-1082
AL	Blacklow, S.C., et al. (1995) "A Trimeric Subdomain of the Simian Immunodeficiency Virus Envelope Glycoprotein," <i>Biochemistry</i> , Vol. 34(46):14955-14962
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AN	Chen, C.H., et al. (1995) "A Molecular Clasp in the Human Immunodeficiency Virus (HIV) Type 1 TM Protein Determines the Anti-HIV Activity of gp41 Derivatives: Implication for Viral Fusion," <i>Journal of Virology</i> , 3771-3777
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EXAMINER

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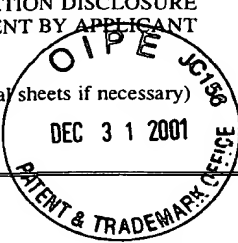
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BK		Salzwedel, K., et al. (1999) "A Conserved Tryptophan-Rich Motif in the Membrane-Proximal Region of the Human Immunodeficiency Virus Type 1 gp41 Ectodomain Is Important for Env-Mediated Fusion and Virus Infectivity," <i>Journal of Virology</i> , Vol. 73(3):2469-2480
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	CO	Chan, D.C., et al. (1997) "Core Structure of gp41 from the HIV Envelope Glycoprotein," <i>Cell</i> , Vol. 89:263-273

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